We Claim:

1. A method for a wireless information transmission, which comprises the steps of:

radiating a broadband radio-frequency signal between a base station and a multiplicity of subscribers, the subscribers being located at different distances from the base station;

coding the broadband radio-frequency signal received in the subscribers in accordance with a code division multiple access method according to information to be transmitted resulting in a coded broadband radio-frequency signal;

modulating the coded broadband radio-frequency signal resulting in a modulated broadband radio-frequency signal;

reflecting back the modulated broadband radio-frequency signal to the base station resulting in response signals received in the base station; and

effecting a signal correlation and demodulation of the response signals received in the base station, during the signal correlation, a time offset of a correlation peak is achieved and a time of the time offset of the correlation peak is calculated in such a manner that the response signals received from the subscribers disposed at a shorter distance

to the base station are more attenuated than the response signals of the subscribers disposed at a greater distance from the base station, resulting in automatic compensation for different propagation losses between the subscribers located at the different distances from the base station.

- 2. The method according to claim 1, which comprises adapting a chipping rate of the broadband radio-frequency signal emitted by the base station to the different distances between the subscribers and the base station.
- 3. The method according to claim 1, which comprises generating the broadband radio-frequency signal in accordance with a direct sequence spread spectrum method.
- 4. The method according to claim 1, which comprises adapting a chipping rate of the broadband radio-frequency signal emitted by the base station to the propagation loses between the subscribers and the base station.
- 5. A configuration for wireless information transmission, comprising:
- a base station radiating a broadband radio-frequency signal and having a transmitting device, a modulator/coder connected to said transmitting device, a receiving device and a

demodulator/decoder with a correlator connected to said receiving device; and

a multiplicity of subscribers located at different distances from said base station, each of said subscribers having a modulation device and an antenna/backscattering device for receiving the broadband radio-frequency signal and for reflecting a response signal, coded in accordance with a code division multiple access method and modulated by said modulation device in accordance with information to be transmitted, said modulation device connected to said antenna/backscattering device, said correlator of said base station performing automatic compensation for different propagation losses between said subscribers located at different distances from said base station by linking a correlation function and a propagation loss to one another in an inverse relationship.

- 6. The configuration according to claim 5, wherein said base station generates the broadband radio-frequency signal in accordance with a direct sequence spread spectrum method.
- 7. An information system for a machine having at least one of a multiplicity of sensors and a multiplicity of actuators, comprising:

a base station radiating a broadband radio-frequency signal and having a transmitting device, a modulator/coder connected to said transmitting device, a receiving device and a demodulator/decoder with a correlator connected to said receiving device; and

a multiplicity of subscribers located at different distances from said base station, each of said subscribers having a modulation device and an antenna/backscattering device for receiving the broadband radio-frequency signal and for reflecting a response signal, coded in accordance with a code division multiple access method and modulated by said modulation device in accordance with information to be transmitted, said modulation device connected to said antenna/backscattering device, said correlator of said base station performing automatic compensation for different propagation losses between said subscribers located at different distances from said base station by linking a correlation function and a propagation loss to one another in an inverse relationship.

8. The information system according to claim 7, wherein the sensors are proximity sensors.

- 9. The information system according to claim 7, wherein said base station generates the broadband radio-frequency signal in accordance with a direct sequence spread spectrum method.
- 10. The information system according to claim 7, wherein the machine is an automatic production machine.